

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0024] with the following amended paragraph:

[0024] In [n] one embodiment, the pulse switch 230 is an on/off switch, but in another embodiment, the pulse switch 230 can be tuned for the integrated circuit process by controlling the voltage of the pulse to be measured. Furthermore, the measured width voltage switch 220 can be embodied as a transistor 220 such as an analog MOSFET.

Please replace paragraph [0025] with the following amended paragraph:

[0025] Figure 2C shows an alternate embodiment of a measuring cell for measuring the width of a pulse in accordance with the present invention wherein the measured width voltage switch is embodied as a diode 221. The source of transfer switch 212 connects to the capacitor 218. Its drain would connect to the source of diode [220] 221. When the gate of the transfer switch is activated or "turned on" by the transfer line, transfer switch 212 will allow the transfer of the measured width voltage 232 across the diode to measuring cell 250.

Please replace paragraph [0029] with the following amended paragraph:

[0029] At the start of each measurement period, Tstart 320 clears the measurement node's capacitor 260. As shown in Figure 3, each measuring cell's enable input 224,224',224", and 224"', is tied to one of the timing signal lines [338, 336, 334, and 332]

332, 334, 336 and 338. As can be seen in Figure 3, for cell 200", its enable input 224" is activated when a Current Enable Timing Signal (Ti) 336 becomes active. While enable input 224" is active, and the pulse width is being measured, the transfer input 210"" of cell 200"", is also active by virtue of being tied to timing signal Ti 336 so that this cell is transferring via its width output 232"" and output line 266, its measured width voltage to the measurement node. At the same time, the precharge input 214' of measuring cell 200' is precharging its capacitor 218 (See Figure 2A), because this precharge input is tied to active timing signal Ti 336. Multiple sampling sequences can be used for obtaining the minimum pulse width.